

Differential protection device

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Cited documents:

CH656262
 EP0484698
 DE3907148

Abstract of EP0739073

The conductors feeding the protected circuit form the CT primary windings in the usual way. The wound secondary (5) has a resistive burden (R) selected to suit threshold fault currents between 30 and 300 mA. With a shunt capacitor (23) the winding forms an LC resonant circuit amplifying the fault signal and attenuating parasitic components. The rectified (D1..D4) signal passes via a delaying and filtering RC circuit (12,13) to a comparison unit (24) controlling a thyristor (14). If the received voltage (V_+ , V_-) exceeds a reference value, the comparator output (25) closes the thyristor circuit, energising a tripping relay (8). The operating voltage (V_+ , V_-) is also available to auxiliary, e.g. fault current display modules (32,33). Some variants are described.

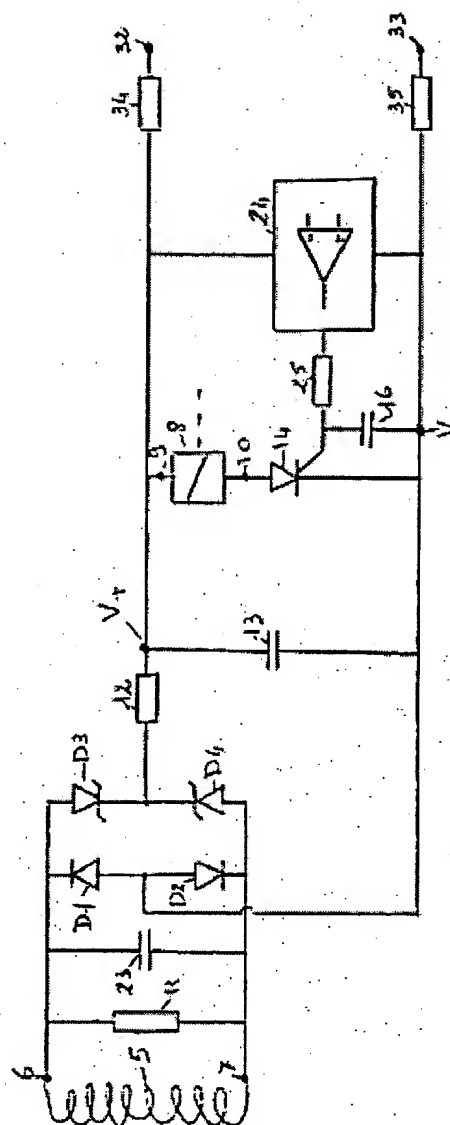


FIG. 4

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